

Draft FPP Change Form

1/16/2008

Change Request Number: 08APP_K_002

Date: January 16, 2008

Proposed by: Jerry McCann, FPC, Rick Martinson, PSMFC

Location of Change

Appendix K, 3.g.

Proposed Change:

I'm proposing that we use the water temperature page on the Technical Management Teams web page as the source of the temperature data for determining when to start and stop high temp sampling protocols. Follow this link to the page.

<http://www.nwd-wc.usace.army.mil/tmt/documents/ops/temp/200707.lcol.html>

This page presents daily averages but a link takes you to a summary of the hourly averages for that day, which could be used as the instantaneous average. The data is from the dissolved gas monitoring network.

Reason for Change:

To simplify. The current procedure is time consuming, redundant, inefficient, and lacks transparency. The proposed change will address all of these shortcomings and provide essentially the same data. The data from this source was compared to the CoE temperature logger used this year and the average difference was 0.2°F. See summary below for more details on the comparison.

Thermometers in the holding tank could still be the back up system.

Advantages:

1. This equipment is owned by the CoE but maintained by USGS. It is calibrated every two weeks.
2. The data is available to all interested parties, via the web.
3. Hourly averages are presented and updated regularly, making it easy for SMP staff to get the data needed in a timely manner, eliminating delays and biased sample days. SMP staff will gladly send out a summary of the hourly temps to all interested parties, which could easily be verified on the web.

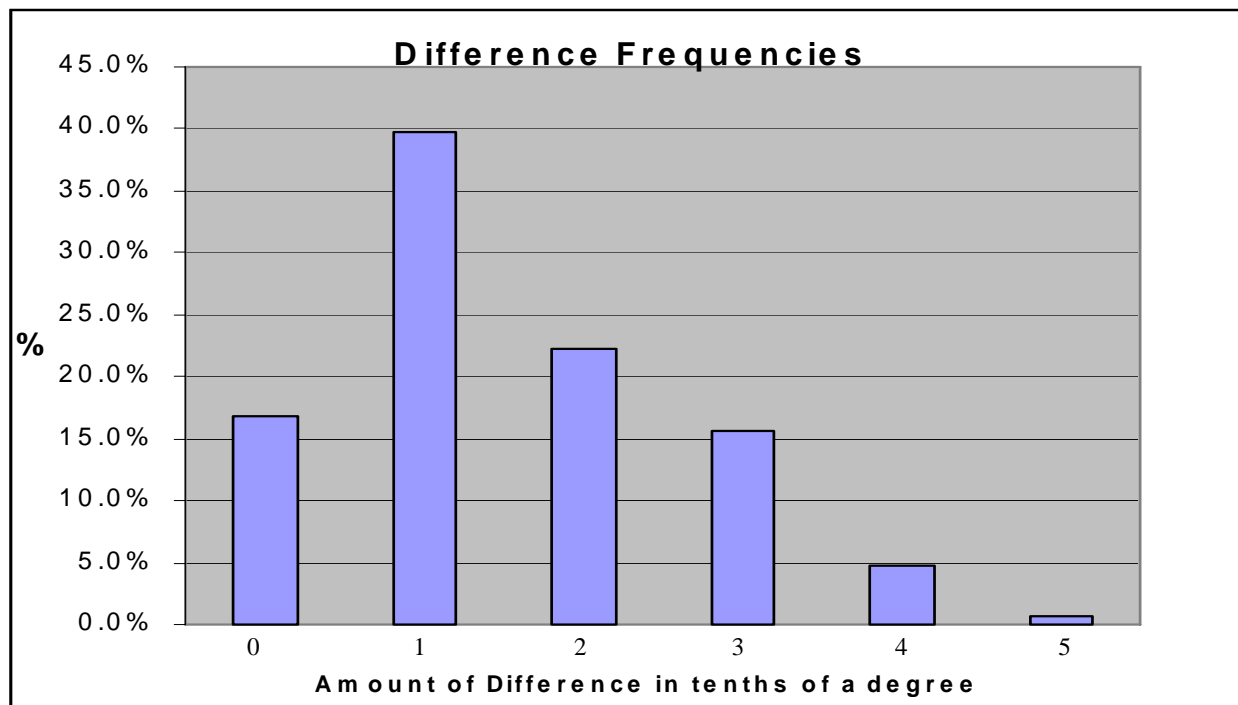
Comparison of Temperatures from the Dissolved Gas Monitoring Network (/forebay) and the Corps Tellog data logger (holding tank), 15 July - 14 September 2007, in degrees Fahrenheit.

How Different Were They?		
Total Data Points:		1,475
Difference	Incidence	Percent Frequency
0	249	16.9%
0.1	585	39.7%
0.2	329	22.3%
0.3	230	15.6%
0.4	71	4.8%
0.5	11	0.7%
1475		100.0%

Summary Table	
Min Diff.	0.0
Max Diff	0.5
Avg. Diff	0.2

How did the probes differ?		
Forebay = Holding Tank	245	16.6%
Forebay > Holding Tank	359	24.3%
Forebay < Holding Tank	871	59.1%
Total Data Points	1475	100.0%

Over 99% of the time the difference was less than a half a degree F.



Comments from others:

Record of Final Action:

There will be two systems in use in 2008. The Project Fisheries will have authority to make a final decision, but they will use both the website and their temperature probe to compare results.